

AMENDMENTS TO THE CLAIMS**Claims pending**

- At time of the Action: Claims 1-37.
- After this Response: Claims 1 and 3-41.

Canceled or Withdrawn claims: 2.**Amended claims: 1, 3-5, 7-20, 22-31 and 33-37.****New claims: 38-41.**

1. (Currently Amended) A method for processing a permission set associated with a code assembly received from a resource location to control execution of the code assembly, the method comprising:

receiving the permission set including at least one permission associated with the code assembly;

receiving a set of requestable permissions ~~permission request set~~ in association with the code assembly; and

~~filtering the permission set based on the permission request set to control execution of the code assembly~~ generating a grantable permission set from a subset of the permission set specified by the set of requestable permissions prior to run-time execution of the code assembly.

2. (Canceled).

3. (Currently Amended) The method of claim 1 wherein the ~~filtering-generating~~ operation comprises:

computing a logical set operation on the permission set and the set of requestable permissions ~~permission request set to generate a permission grant set~~ the grantable permission set.

4. (Currently Amended) The method of claim 1 ~~wherein the permission request set specifies a minimum permission condition and the filtering operation comprises further~~ comprising:

comparing the permission set and a minimum permission condition specified by the set of requestable permissions; and

preventing loading of the code assembly, if the permission set fails to satisfy the minimum permission condition.

5. (Currently Amended) The method of claim 1 ~~wherein the permission request set specifies a minimum permission condition and the filtering operation comprises further~~ comprising:

preventing execution of the code assembly, if the permission set fails to satisfy ~~the a~~ minimum permission condition specified by the set of requestable permissions.

6. (Original) The method of claim 1 further comprising:

defining a code group collection based on a security policy specification, the code

group collection including one or more code groups;

receiving evidence associated with the code assembly;

evaluating membership of the code assembly in the one or more code groups, based on the evidence; and

generating the permission set based on the membership of the code assembly in the one or more code groups.

7. (Currently Amended) The method of claim 1 wherein the ~~permission request set~~ of requestable permissions specifies a plurality of typed permission request sets, each typed permission request set specifying a distinct type of permission preference requested in association with the code assembly.

8. (Currently Amended) The method of claim 1 wherein the set of requestable permissions ~~permission request set~~ specifies a ~~minimum request set specifying a minimum set of permissions requested~~ permission condition in association with the code assembly.

9. (Currently Amended) The method of claim 8 wherein the ~~filtering~~ generating operation comprises:

filtering the permission set based on the ~~minimum request set~~ permission condition to generate a ~~permission grant set~~ the grantable permission set, such that the ~~permission grant~~ grantable permission set includes a subset of the permission set.

10. (Currently Amended) The method of claim 8 further comprising:
preventing loading of the code assembly, if the minimum request-set-permission
condition is not a subset of the permission set.

11. (Currently Amended) The method of claim 8 further comprising:
preventing execution of the code assembly, if the minimum request-set-permission
condition is not a subset of the permission set.

12. (Currently Amended) The method of claim 1 wherein the set of requestable
permissions ~~permission request set specifies an optional request set specifying an optional set~~
of permissions ~~requested-requestable~~ in association with the code assembly.

13. (Currently Amended) The method of claim ~~1~~ ~~12~~ wherein the ~~filtering operation~~
~~comprises filtering the permission set based on the optional request set to generate a~~
~~permission grant set; and~~ further comprising:

executing a first level of code assembly functionality if ~~the~~ a first optional request set
of permissions specified in the requestable permission set is a subset of the permission ~~grant~~
set; and

executing a second level of code assembly functionality if ~~the~~ a second optional
request set of permission specified in the requestable permission set is ~~not~~ a subset of the
permission ~~grant~~ set.

14. (Currently Amended) The method of claim 1 wherein the set of requestable permissions ~~permission request set~~ specifies a refuse request set specifying a set of one or more permissions to be omitted from a the grantable permission grant set associated with the code assembly.

15. (Currently Amended) The method of claim 14 wherein the ~~filtering operation~~ comprises further comprising:

omitting the set of one or more permissions specified by the refuse request set from the ~~permission grant set~~ set of grantable permissions.

16. (Currently Amended) The method of claim 1 wherein the ~~permission request set~~ set of requestable permissions includes an optional request set specifying an optional set of permissions ~~requested requestable~~ in association with the code assembly and a minimum request set specifying a minimum set of permissions ~~requested requestable~~ in association with the code assembly, and wherein the ~~filtering-generating~~ operation comprises:

computing a union of the optional request set and the minimum request set to provide a maximum request set; and

computing an intersection of the maximum request set and the permission set.

17. (Currently Amended) The method of claim 16 wherein the ~~permission request set~~ of requestable permissions further specifies a refuse request set specifying a set of one or more permissions to be omitted from a ~~permission grant set~~ the grantable permission set in

associated with the code assembly, and wherein the ~~filtering~~ generating operation further comprises:

subtracting the set of one or more permissions specified in the refuse request set from the intersection of the maximum request set and the permission set.

18. (Currently Amended) The method of claim 1 wherein the operation of receiving ~~the a permission request set~~ of requestable permissions comprises:

receiving the ~~permission request set~~ of requestable permissions and the code assembly in a single network communication.

19. (Currently Amended) The method of claim 1 wherein the operation of receiving a ~~permission request~~ the set of requestable permissions comprises:

retrieving the ~~permission request set~~ of requestable permissions in a network communication distinct from a network communication in which the code assembly is received.

20. (Currently Amended) A policy manager module for processing a permission set associated with a code assembly received from a resource location to control execution of the code assembly, the policy manager module comprising:

a filter receiving the permission set and a set of requestable permissions ~~permission request set~~ associated with the code assembly and filtering the permission set based on the set of requestable permissions ~~permission request set to control~~ before execution of the code

assembly.

21. (Original) The policy manager module of claim 20 further comprising:
a permission set generator receiving an evidence set and generating a permission set
in association with the code assembly, based on the evidence set.

22. (Currently Amended) The policy manager module of claim 20 wherein the filter
generates a grantable permission grant set from a subset of the permission set specified by
the set of requestable permissions ~~permission request set~~.

23. (Currently Amended) The policy manager module of claim 20 wherein the filter
computes a logical set operation on the permission set and the set of requestable permissions
~~permission request set~~ to generate a grantable permission grant set.

24. (Currently Amended) The policy manager module of claim 20 wherein the filter
prevents loading of the code assembly, if the permission set fails to satisfy ~~the~~ a minimum
permission condition specified by the set of requestable permissions.

25. (Currently Amended) The policy manager module of claim 20 wherein the filter
prevents execution of the code assembly, if the permission set fails to satisfy ~~the~~ a minimum
permission condition specified by the set of requestable permissions.

26. (Currently Amended) The policy manager module of claim 20 wherein the set of requestable permissions ~~permission request set~~ specifies a plurality of typed permission request sets, each typed permission request set specifying a distinct type of permission preference requested in association with the code assembly.

27. (Currently Amended) The policy manager module of claim 20 wherein the set of requestable permissions ~~permission request set~~ specifies a ~~minimum request set specifying a~~ minimum set of permissions requestable ~~requested~~ in association with the code assembly.

28. (Currently Amended) The policy manager module of claim 20 wherein the set of requestable permissions ~~permission request set~~ specifies an ~~optional request set specifying an~~ optional set of permissions requestable ~~requested~~ in association with the code assembly.

29. (Currently Amended) The policy manager module of claim 20 wherein the filter generates a grantable permission ~~grant set~~ omitting one or more permissions specified in a refuse request set of the set of requestable permissions.

30. (Currently Amended) The policy manager module of claim 20 wherein the set of requestable permissions ~~permission request set~~ specifies an optional request set specifying an optional set of permissions requestable ~~requested~~ in association with the code assembly and a minimum request set specifying a minimum set of permissions requestable ~~requested~~ in association with the code assembly, and wherein the filtering operation comprises:

computing a union of the optional request set and minimum request set to provide an maximum request set; and

computing an intersection of the maximum request set and the permission set.

31. (Currently Amended) The policy manager module of claim 20 wherein the filter generates a grantable permission ~~grant~~-set based on an optional request set, the grantable permission ~~grant~~-set being associated with a first level of code assembly functionality if the optional request set is a subset of the grantable permission ~~grant~~-set and being associated with a second level of code assembly functionality if the optional request set is not a subset of the grantable permission ~~grant~~-set.

32. (Original) The policy manager module of claim 20 further comprising:

a code group collection generator creating a code group collection based on a security policy specification, the code group collection including one or more code groups;

a membership evaluator determining membership of the code assembly in the one or more code groups, based on evidence associated with the code assembly; and

a permission set generator creating the permission set based on the membership of the code assembly in the one or more code groups.

33. (Currently Amended) A computer data signal embodied in a carrier wave by a computing system and encoding a computer program for executing a computer process processing a permission set associated with a code assembly received from a resource

location to control execution of the code assembly, the computer process comprising:

receiving the permission set including at least one permission associated with the code assembly;

receiving a set of requestable permissions ~~permission request set~~ in association with the code assembly; and

filtering the permission set based on the set of requestable permissions before run-time execution of the code assembly ~~permission request set to control execution of the code assembly~~.

34. (Currently Amended) A computer program storage medium readable by a computer system and encoding a computer program for executing a computer process processing a permission set associated with a code assembly received from a resource location, the computer process comprising:

receiving the permission set including at least one permission associated with the code assembly;

receiving a set of requestable permissions ~~permission request set~~ in association with the code assembly; and

filtering the permission set based on the set of requestable permissions prior to run-time execution of the code assembly ~~permission request set to control execution of the code assembly~~.

35. (Currently Amended) A computer program product encoding a computer

program for executing on a computer system a computer process processing a permission set associated with a code assembly received from a resource location to control execution of the code assembly, the computer process comprising:

defining a code group collection based on a security policy specification, the code group collection including one or more code groups;

receiving evidence associated with the code assembly;

evaluating membership of the code assembly in the one or more code groups, based on the evidence;

generating the permission set based on the membership of the code assembly in the one or more code groups;

~~receiving the permission set including at least one permission associated with the code assembly;~~

receiving a set of requestable permissions ~~permission request set~~ in association with the code assembly; and

computing a logical set operation on the permission set and the set of requestable permissions ~~permission request set~~ to generate a grantable permission grant set ~~before execution of the code assembly~~.

36. (Currently Amended) The computer program product of claim 35 wherein the set of requestable permissions ~~permission request set~~ includes an optional request set specifying an optional set of permissions requestable ~~requested~~ in association with the code assembly and a minimum request set specifying a minimum set of permissions requestable ~~requested~~ in

association with the code assembly, and wherein the computing-filtering operation comprises:

computing a union of the optional request set and the minimum request set to provide a maximum request set; and

computing an intersection of the maximum request set and the permission set.

37. (Currently Amended) The computer program of claim 36 wherein the set of requestable permissions ~~permission request set~~ further specifies a refuse request set specifying a set of one or more permissions to be omitted from a the grantable permission grant-set in associated with the code assembly, and wherein the computing-filtering operation further comprises:

subtracting the set of one or more permissions specified in the refuse request set from the intersection of the maximum request set and the permission set.

38. (New) The method of claim 1, wherein the set of requestable permissions comprise characteristics of the permissions needed by the code assembly.

39. (New) The method of claim 1, further comprising controlling execution of the code assembly based upon the grantable permission set.

40. (New) The method of claim 39, wherein controlling execution of the code assembly comprises:

receiving a permission request associated with the code assembly; and
selectively granting the requested permission as a function of the grantable
permission set during run-time execution of the code assembly.

41. (New) The method of claim 1 further comprising:

executing a basic functionality of the code assembly if an optional set of permissions
specified in the set of requestable permissions is not a subset of the permission set; and
executing an enhanced functionality of the code assembly if the optional set of
permissions specified in the set of requestable permissions is a subset of the permission set.